8802-3/802.3 REVISION REQUEST

DATE: 07/10/2016
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REQUESTED REVISION: P802.3bt
STANDARD: 802.3-2015
CLAUSE NUMBER: 33
CLAUSE TITLE: Data Terminal Equipment (DTE) Power via Media Dependent Interface (MDI)

PROPOSED REVISION TEXT:
This MR pertains to 33.3.7.9 on Backfeed voltage.
Replace the text in 33.3.7.9 as follows:

"When any voltage in the range of 0V to VPort_PD max is applied across the PI at either polarity specified on the conductors for Mode A according to Table 33-13, the voltage measured across the PI for Mode B with a 100 kOhm load resistor connected across Mode B shall not exceed Vbfd max as specified in Table 33-18.
When any voltage in the range of 0V to VPort_PD max is applied across the PI at either polarity specified on the conductors for Mode B according to Table 33-13, the voltage measured across the PI for Mode A with a 100 kOhm load resistor connected across Mode A shall not exceed Vbfd max."

RATIONALE FOR REVISION:
The existing text in 33.3.7.9 says "When VPort_PD max is applied across the PI...". VPort_PD max is a single voltage point of 57.0V. This has the effect of invalidating the requirement.
The intent of this requirement was to not backfeed at any voltage from 0V to 57V. In addition the existing text is not 100% clear on where the 100K load resistor is to be placed.

IMPACT ON EXISTING NETWORKS:
None.

Please attach supporting material, if any
Submit to:- David Law, Chair IEEE 802.3
and copy:- Adam Healey, Vice-Chair IEEE 802.3
At:- E-Mail: stds-802-3-maint-req@ieee.org

REV REQ NUMBER: 1300
DATE RECEIVED: 7th October 2016
EDITORIAL/TECHNICAL
ACCEPTED/DENIED
BALLOT REQ'D YES/NO
COMMENTS:

For information about this Revision Request see -
http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1300